**Goal9 Day 6/7**

**Factoring Trinomials**

**Leading Coefficient other than “1”**

Just like leading coefficients of 1 we will have to find factors of numbers.

In the problem we found the factors of +6.

Now instead of finding factors of the third term, we will first **multiply the first and third term coefficients**, and then we will find the factors of that number.

Ex. (multiply 2 and -15)

Now find the factors of -30

**1 -30 -1 30**

**2 -15 -2 15**

**3 -10 -3 10**

**5 -6 -5 6**

At this point we will work through our process the same as we did in the past (replace middle term with the factors and then use factor by grouping).

**Ex. +90**

1 90 -1 -90

2 45 -2 -45

3 30 -3 -30

5 18 -5 -18

6 15 -6 -15

9 10 -9 -10

**Ex. -98**

**On your own**